

China Starwin 1.2M KA BAND ANTENNA DATASHEET

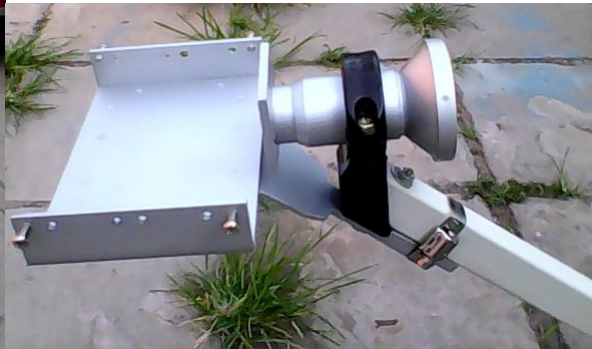
1.2m Ka band antenna appearance



1.2m Ka antenna (2 options : simple feed arm , feed arm with transceiver plate)



1.2m Ka antenna



1.2m Ka antenna feed & BUC support

General description

China Starwin 1.2 m Ka band antenna delivers exceptional high performance for transmit/receive application with high gain, low noise and low any interference.

China Starwin 1.2 m Ka band antenna offers a fine reflector with a stretch formed panels and effective feeder. The standard designed azimuth over elevation pedestal provides a cost-effective solution for ground or roof installation with high stiffness, stability and good wind resistance.

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The electrical performance is compliant with FCC and ITU-RS-580 sidelobe specifications and Intelsat , Eutelsat, SES, AsiaSat, ChinaSat, etc requirement.

Technical Specification 1 (Wider 2GHz Frequency Range)

Item No.	SWKA120-CP2(W) (Starwin 1.2m Ka band antenna)
Antenna Diameter	1.2 m
Antenna Type	Offset
Antenna Pedestal Type	Kingpost
Antenna Drive Mode	Manual
Frequency Range	Tx : 28 GHz~30GHz Rx : 18.2 GHz~21.2 GHz
Antenna Gain (dBi)	Tx : $G \geq 49 + 20 \lg(f/29.5)$ Rx : $G \geq 45.5 + 20 \lg(f/19.95)$
VSWR	$\leq 1.25:1$
Polarization	Circular or Liner
First Sidelobe	≤ -14.5 dB
Feed Interface	Rx port: WR42, Tx port: WR28
Driving range	Azimuth: $\pm 85^\circ$ under Elevation : $5^\circ \sim +85^\circ$
Operation Wind Speed	28 m/s
Working Temperature	$-40^\circ\text{C} \sim +70^\circ\text{C}$ (outdoor)

Technical Specification 2 (Narrower Ka frequency range)

Item No.	SWKA120-CP2(N) (Starwin 1.2m Ka band antenna)
Antenna Diameter	1.2 m
Antenna Type	offset
Antenna Pedestal Type	Kingpost
Antenna Drive Mode	Manual

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Frequency Range	Tx : 21.4GHz~21.7GHz Rx : 18.1 GHz~18.4 GHz
Antenna Gain (dBi)	Tx : $G \geq 49.0 + 20 \lg(f/29.5)$ Rx : $G \geq 45.5 + 20 \lg(f/19.95)$
VSWR	$\leq 1.25:1$
Polarization	Liner or Circular
First Sidelobe	≤ -14.5 dB
Feed Interface	Rx port: WR42, Tx port: WR28
Driving range	Azimuth: $\pm 85^\circ$ under Elevation : $5^\circ \sim +85^\circ$
Operation Wind Speed	28 m/s
Working Temperature	$-40^\circ\text{C} \sim +70^\circ\text{C}$ (outdoor)